

JC20 Rec'd PCT/PTO 19 OCT 2005

**PATENT APPLICATION****A PROCESS FOR THE TRANSMISSION OF DATA REPRESENTING THE  
POSITION IN SPACE OF A VIDEO CAMERA AND A SYSTEM FOR  
IMPLEMENTING THE PROCESS****Inventor:** Laurent Alhadeff  
-----**Filing organization:** Yodea Editions  
-----**SUMMARY**

5 The invention concerns a process and a system (1') for acquiring  
and transmitting, in real time, data representing the position in space, in  
terms of spatial coordinates and inclination with respect to a reference  
point, of a video camera (10'), while the camera moves along a  
trajectory. The acquired data, once processed, permit determination of  
the position and inclination of the images obtained. The system (1')  
consists of two principal subsystems: a module containing an inertial  
10 sensing unit (11') attached to the camera (10') and a module for data  
processing using stored software programs (2), communicating with the  
inertial sensing unit via a connection (112'), either wired or wireless.

15 It has applications in the integration of images captured by the  
camera with synthetic images and in navigation within a virtual  
universe.